

PERSONAL INFORMATIONS



Paola Cianfarra, PhD

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Date of birth 29/06/1976 | Nationality Italiana

INSTRUCTION AND FORMATION

- **PhD in Geodynamics** at Roma Tre University on 27/03/2006. Thesis title: The tectonic origin of the Antarctic Subglacial lakes in the Vostok-Dome C region, East Antarctic craton.
- **Master of Science Degree in Geology** at Roma Tre University, score 110/110 with laudem, on the 24/05/2002. Thesis title: Seismotectonic characterization of the Umbrian-Marchean Apennines from synthetic scaled, morphotectonic data.
- **Maturità scientifica** (High School Diploma) at Liceo Scientifico F. Enriques on the 20/07/1995.

ACADEMIC QUALIFICATIONS AND PROFESSIONAL DISTINCTIONS

- **Ricercatore a Tempo Determinato** (art. 24, comma 3, lettera B legge 30 dicembre 2010, n.240) (**Lecturer in Structural Geology**) at DISTAV- Dipartimento di Scienze della Terra, dell'Ambiente, Genoa University since 01/03/2023.
- **Ricercatore a Tempo Determinato** (art. 24, comma 3, lettera A legge 30 dicembre 2010, n.240) (**Lecturer in Structural Geology**) at DISTAV- Dipartimento di Scienze della Terra, dell'Ambiente, Genoa University from 01/11/2019 to 28/02/2023.
- **Ricercatore a Tempo Determinato** (art.1 comma 14 L. 230/05) (**Lecturer**) from 01/03/2011 to 29/02/2016 at Dept. of Science, Roma Tre University (Rome).
- **Abilitazione Scientifica Nazionale** (art. 16, comma 1, Legge 240/10) per il ruolo di professore universitario di seconda fascia (settore concorsuale 04/A2) (**National Academic Qualification as Associate Professor**) obtained on 05/04/2017.

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- **Leader of the University of Genova Research Unit** in the international project entitled: "Capturing site amplification in seismic design: Pilot study investigating seismic site amplification at stations of the NZ seismic network" (**2023 CATALYST FUND SEEDING**, Application Number 23-GNS-012-CSG) whose PI is Dr. Anna Keiser (GNS Science, NZ) with allowed financing of 66000 NZ\$ (36656.40EUR). Duration 2 years (from 01/11/2023).

- **Winner of the PNRA** (L. 380/91 D.D. 651/5 Aprile 2016) (**Italian National Research Program in Antarctica**) call for young reseachers and **Principal Investigator** of the G-IDEA Project (Geo-Ice Dynamics of East Antarctica) funded by the PNRA and MIUR (Italian Ministry of University and Research). Allowed financing €115,200 for a two-year project.

- **Winner of the 2021. Call Europlanet 2024** – Research infrastructure. Title of the project: UPSIDE -Unravelling icy Planetary Surfaces: Insights on their tectonic DEformation from field Survey (project number 20-EPN2-89). **Principal Investigators: C. Rossi and P. Cianfarra**

- **Leader of the Roma Tre University Research Unit** in the International project "Geomorphological-Pedological Evolution of Cuesta Escarpment Foothills in the State of São Paulo" (FAPESP Grant Process 2016/08722-3) whose Principal Investigator is Prof. Fernando Nadal Junqueira Villela of USP (Universidade de São Paulo, Department of Geography) with allowed financing of R\$109016.39 (€ 29564.17) from São Paulo Research Foundation and two-year duration.

- **Research Grant for Visiting Researcher** at Universidade de São Paulo in the framework of the research project entitled "Neotectonica da Região da Serra de São Pedro e Arrendores/ Neotectonics of the São Pedro Ridge Region and Surroundings" (FAPESP Grant Process 2017/14791-0) allowed financing R\$14325,20 (€ 3884.85) from São Paulo Research Foundation.

- **Visiting Professor** at Universidade de São Paulo, Physical Geography Dept., from 15/11/2017 to 15/12/2017

- **Award "Una laurea d'oro"** with special mention from Ostia Cultura Association as the best MsC thesis obtained on May, 18th 2003.

- **Editor** of Geofluid, Impact Factor 1.437, <https://www.hindawi.com/journals/geofluids/>

- Topic Editor** of Remote Sensing, **Impact Factor:** 4.118 (2018) ; 5-Year Impact Factor: 4.740 (2018)
<https://www.mdpi.com/journal/remotesensing>

- Guest Editor** for the Special Issue on Landscape Evolution in tectonically active regions of Geoscience Journal

(https://www.mdpi.com/journal/geosciences/special_issues/Landscape_Evolution_Tectonically)

- **Reviewer of ISI journals:** Remote Sensing; Geophysical Journal International; Geosphere; Arabian Journal of Geosciences; Journal of African Earth Sciences; Geosciences; The Cryosphere, Cold Region Science and Technology, Brazilian Journal of Geology; Planetary and Space Sciences

- **Reviewer** of research projects submitted for financing to the **Australian Antarctic Division** and to the **UK Space Agency**

**PROFESSIONAL
EXPERIENCES
(RESEARCH, TEACHING &
CONSULTING)**

- Since 2006 I have been participating, also with the role of coordinator, to technical and scientific consulting activities in the framework of research projects funded by oil industry (First Calgary Petroleum Ltd and ENI Algeria; Petrobras, Brazil; ENI Norge, Norway; OMV, Austria). I have been co-leader of field trips organized for oil company personnel with scientific and didactic purposes. I collaborated in the preparation of theoretical and practical courses for training of Petrobras and ENI personnel on themes of **fracturing, modeling of fracturing** in oil reservoirs, and preparation of balanced geological cross sections (see details in the "Consulting Activities" chapter).

- **Assegno di ricerca (Research Fellowship)** at the Geology Dept of Roma Tre University on the Geodynamic Evolution of the Central Sector of the East Antarctic Craton from 01/06/2006 to 28/02/2011.

- **Ricercatore a Tempo Determinato** (art.1 comma 14 L. 230/05) (**Lecturer**) from 01/03/2011 to 29/02/2016 at the Science Dept, Geology section of Roma Tre University on the research subject "Studies on the geodynamics and regional tectonics of cratonic and marginal areas with dynamic and kinematic numerical methodologies, and through the interpretation of geophysical data and synthetic scaled images, including digital elevation models and satellite images".

- **Fellowship (borsista)** from 01/03/2016 to 30/11/2016 at the Science Dept, Geology section of Roma Tre University on the research subject: "Development of methodologies on exploration and evaluation of geological resources by synthetic scaled images of planet surfaces".

- **Assegno di ricerca (Research Fellowship)** at the Geology Dept of Roma Tre University from 01/12/2016 to 31/10/2017 on the research project entitled "Modeling of the crustal tectonic evolution of key areas on our planet and their comparison with other bodies in the Solar System".

- **Assegno di ricerca (Research Fellowship)** at the Geology Dept of Roma Tre University from 01/11/2017 to 31/10/2019 on the research project "Geodynamics and Ice Dynamics in East Antarctica" funded by **PNRA** (L. 380/91 D.D. 651/5 Aprile 2016) (**Italian National Research Program** whose Principal Investigator is the undersigned).

- **Ricercatore a Tempo Determinato** (art. 24, comma 3, lettera A legge 30 dicembre 2010, n.240) (**Lecturer in Structural Geology**) at **DISTAV** - Dipartimento di Scienze della Terra, dell'Ambiente, **Genoa University** from **01/11/2019 to present**.

- I performed continuous **teaching** activities since 2005 by seminars, exercise classes, and teaching modules within the **Remote Sensing, Structural Geology, Geodynamics, Petroleum Geology, Balanced Geological Cross Section** and **GIS** classes for the Master Degree in "Geologia del Territorio e delle Risorse" (D.M. n. 270/2004), for the Bachelor Degree in Geological Sciences (D.M. n. 270/2004), and for Post-Graduate Master Degree in "GIS e Telerilevamento per la Pianificazione Geoambientale" (GIS and Remote Sensing applied to Geo-Environmental planning).

- Professor of the **Geological Remote Sensing** class in 2007/2008 and since 2011 for the Master Degree in "Geologia del Territorio e delle Risorse" (D.M. n. 270/2004).

- Professor of **Environmental Remote Sensing** from 2006 to 2012 for the the Post-Graduate Master Degree in "GIS e Telerilevamento per la Pianificazione Geoambientale" (GIS and Remote Sensing applied to Geo-Environmental planning)

- **Tutor** and **co-tutor** of over 30 Master Degree and Post-Graduate Master theses, and of 4 PhD theses on topics related to Planetary Geology, Geodynamics and Structural Geology.
- **Co-responsible with** Dott. PhD Marcos Roberto Pinheiro of the **academic course “Neotectonic and Landform Development**, (discipline FLG 5147, durata 120 ore, 8 crediti) in the Post-Graduate Program in Physical Geography of the São Paulo University in the period 2017-2023 (starting from 14/03/2017).
- Participation to the **XXVI PNRA Antarctic** campaign (nov-dic 2010) in the framework of studies on the neotectonic and geodynamic of Northern Victoria Land within the Geodesy Project, responsible Prof. A. Capra (Reggio Emilia-Modena University). Participation to the **XXXIV PNRA Antarctic campaign** (nov-dic 2018) to study the brittle deformation associated to regional faults in Northern Victoria Land in the framework of the G-IDEA Project (Principal Investigator: Paola Cianfarra). Participation to the **XXXVII PNRA Antarctic campaign** (ott-nov 2021) to study the connection between the Rennick and Aviator fault corridors in the framework of the LARK project (Principal Investigator: F. Salvini).
- Participation to the **structural glaciology campaign** (July 2021) in **Greenland** to study ice faulting in the SE margin of the ice cap as analogue of the deformation styles of the icy surfaces in the Solar System (e.g. Martian polar caps, Ganymede, Europa, Enceladus). The study is conducted in the framework of the UPSIDE project (Unravelling icy Planetary Surfaces: Insights on their tectonic DEformation from field Survey, project number 20-EPN2-89) **Europlanet 2024 – Research infrastructure**
- Organization and participation to the **spring arctic campaigns** (April 2003, May 2004, April 2010, April 2013) and **summer arctic campaigns** (August-September 2010 and 2011) in **Svalbard** for studies on the active tectonics in intra- and inter-cratonic regions.
- In 2010 responsible and professor the class **“Remote Sensing applied to the evaluation of the Snow Water Equivalent”** for the course “Previsione meteorologica di montagna, elaborazione di bollettini neve e valutazione del rischio valanghe” at the non-academic institution Servizio della Protezione Civile (sezione Campochiaro-CB)
- **Supply professor of Mathematics and Science** at the secondary school Istituto Comprensivo W. Mozart, Acilia (Roma) from 01/03/2006 to 17/03/2006. From 14/09/2006 to 14/02/2007 supply professor of Mathematics, Science and Informatics at the secondary school Istituto Comprensivo Via Beschi, Roma, where I was also responsible of the Computer Lab. **Supply professor of Mathematics and Science** from 28/10/2016 to 13/11/2016 at the secondary school Istituto Comprensivo Largo Volumnia, Roma. **Supply professor of Mathematics and Science** (from 15/09/2017 to 30/06/2018 and from 17/09/2018 to 30/06/2019) at the secondary school Istituto Comprensivo Marco Ulpio Traiano, Roma.

CONSULTING ACTIVITIES

- Scientific project/research contract on the “Structural Fracture Modelling Study of seismic line Meh-2002-007, Mehr Block, and comparison with Kuh Bangestan Fold, Zagros thrust-fold belt, Iran” funded and developed with OMV, Austria in the period 1 Jan-31 Dec 2006 at the Geological Science Dept of Roma Tre University. I was responsible of the studies on the active tectonics, and I determined the active stress fields in the Mehr-Block oil field (south-western Iran), through the compared study of lineament domains from Landsat satellite images and seismicity from the catalogues. I also developed an original methodology for the automatic identification of dip domains from satellite images of the Kuh-Bangestan analogue plicative structure. This methodology

integrates field structural measurements. Results of this collaboration are reported in the confidential technical report that I prepared.

- Scientific project/research contract on “Eldfisk structure tectonic model and related fracturing prediction” funded and developed with ENI Norge, Norway in the period Sept 2007- Feb 2009 at the Geological Science Dept of Roma Tre University. I was manager of the team in charge for the preparation of 9 transversal and 5 longitudinal balanced geological sections (2D plus time) through progressive numerical modeling methodologies starting from depth converted, interpreted seismic sections. The integration of the sections allowed the realization of a 4D (3D plus time) tectonic evolution model of the Eldfisk oil field (North Sea). The same progressive numerical modeling methodology was applied to the preparation of the balanced geological section of the Lägendorf Quarry (Germany), where the analogue of the Eldfisk structure crops out. Eventually the comparison between the prospect and the analogue tectonic models allowed to successfully prepare the permeability predictive model of the Eldfisk oil field. Results of this study are reported in the confidential technical report that I prepared in collaboration

- Scientific project/research contract on “Goliath field (Barents Sea) tectonic evolution” funded and developed with ENI Norge, Norway in the period 1 Sept - 31 Dec 2009 at the Geological Science Dept of Roma Tre University. I was **scientific responsible and team leader** for the preparation of 1 regional and 1 local scaled balanced geological section (2D plus time) of the Goliath oil field (Barents Sea) starting from depth-converted and interpreted seismic sections. Results of this study are reported in the confidential technical report that I prepared.

- Scientific project/research contract on the “Tectonic evolution of ultra-deep water geological structures by forward numerical modelling and prediction of fault-related permeability in microbialite deposits (TRACAR)” funded and developed with PETROBRAS, Brazil in the period Jan 2010- Dec 2011 at the Science Dept – Geology Section, Roma Tre University. I was **manager of the team** in charge for the preparation of 17 longitudinal and 10 transversal balanced geological sections (2D plus time) through progressive numerical modeling methodologies starting from depth-converted and interpreted seismic sections of the oil field in ultra-deep waters. The sections were then used to realize a 4D (3D plus time) tectonic evolutionary model of the studied geological structure. I also collaborated as team leader to the organization and realization of 2 training field trips for Petrobras geologists and engineers on the subject of fracturing in microbialites. Results of this study are reported in the confidential technical report that I prepared in collaboration.

- Scientific project/research contract on “CAFC FRAPAD – Fracture Pattern Distribution in CAFC F6-1 Formation Study” funded and developed with SH-FCP e ENI Algeria, Algeria in the period 1 Aug 2012 - 29 Mar 2013 at the Science Dept – Geology Section, Roma Tre University. I was **manager of the team** in charge for the preparation of 6 transversal and 4 longitudinal balanced geological sections (2D plus time) through progressive numerical modeling methodologies starting from depth-converted and interpreted seismic sections of the oil field. The sections were then used to realize a 4D (3D plus time) tectonic evolutionary model of the CAFC F6-1 oil field. I also determined the preferential directions of enhanced secondary permeability through the analysis of lineament domains detected on the surface images of the stratigraphic units overlying the reservoir till the surface topography. Results of this study are reported in the confidential technical report that I prepared in collaboration.

RESEARCH ACTIVITIES

My research activity is characterized by a multi-scalar and quantitative approach that include the integration of geophysical data with satellite/DEM images for multi- and inter-disciplinary studies related to: i) the evolution of the solid earth and terrestrial surface (structural geology, geodynamics, planetology with specific applications for seismic and volcanic risk assessment and

mitigation); ii) the evolution of the atmosphere (cryosphere-solid earth interaction, specifically in vulnerable areas such as the polar regions), of the hydrosphere (monitoring and assessment of the water resources); iii) exploration and investigation of the energy resources and their sustainable development (non-renewable resources, geothermal energy, research and development of energy resources respecting environments and ecosystems).

My research activity is based both on the collection, analysis, and numerical modeling of structural geology, geophysical/geodetic, and morphologic (satellite images, DEM) data for tectonic and geodynamic studies at the various scales, and on the study of crustal stress fields (recent and/or active) responsible for the landscape evolution in tectonically active regions. A further research subject involves the study of fracturing associated to faulting at the various scales through the collection of field data and the preparation of kinematic/dynamic numerical models of the evolution of complex geological structures to quantify secondary permeability at depth and the spatial variation of rock rheological properties.

The activity in the first research field begun in 2001 with the Master Degree thesis on the seismic-tectonic characterization of the Umbrian-Marchean Apennines by the analysis of synthetic scale images of the Earth surface (DEM and Landsat satellite). Results showed that the orientation and spatial distribution of the main lineament domains that were identified in the studied area correlate with the crustal stress field responsible for the accumulation and release of seismic energy. This study confirmed that the lineament analysis in seismically active areas represents an effective tool also in support to seismic zoning studies. Results were presented as invited contribute at the 25° Convegno GNGTS, held in Rome 28-30 November, 2006.

The PhD research involved the study of regional depressions in the bedrock under the East Antarctic Ice Sheet (Vostok-Dome C area) that are characterized by elongated and asymmetric shapes (half-graben) similar to other depression with tectonic origin in intra-cratonic context (e.g. Lake Baikal). Numerical modeling allowed to replicate the morphologies of these depressions, derived from geophysical data (Radio Echo-Sounding, RES), as the result of the activity of crustal listric faults. Results are published in Tabacco et al., 2006, *Geophys J Int*; Cianfarra et al, 2009, *Geophys J Int*; Cianfarra and Salvini, 2016, *Tectonophysics*; Cianfarra and Maggi, 2017 *Tectonophysics* (where I, main author in almost all of them, provided the data interpretation and their discussion, the preparation of the tectonic model, and main preparation of text and figure of the paper) and in Maggi et al., 2016, *Earth and Planetary Science Letters* (where I provided the interpretation of geophysical data and the preparation of the fault tectonic model). In these works it has been proposed the existence, within the East Antarctic Craton, of a normal fault array of crustal relevance, with displacements of the order of the few kilometers and a Cenozoic age. The integration at the regional scale of these faults allowed to develop a tectonic-geodynamic model of the East Antarctic Craton characterized by the presence of a transpressional deformation corridor 800 km long and active since upper Cenozoic (Cianfarra & Salvini, 2008, *Terra Antarctica Reports*; Cianfarra & Salvini 2013, *International Journal of Geosciences*; Cianfarra and Salvini, 2016 *Tectonophysics*; Cianfarra and Maggi, 2017 *Tectonophysics*; in these articles I, as the main author, provided the data analysis and interpretation, their discussion, the preparation of the tectonic model, and the preparation of text and figures). More recently, the poli-phasic tectonic history of a crustal scale fault corridor representing the tectonic boundary between the East Antarctic Craton and the North Victoria Land has been highlighted through paleostress analyses (result published in Cianfarra et al., 2022, *Tectonics*).

Tectonic studies were performed with the development of an original methodology of lineament domain analysis on satellite images (multispectral dataset and RADAR) and DEM both in continental and cratonic areas. This methodology allowed to reveal the effects of recent/active tectonics on the surface morphology of regions that have been previously considered stable since the Mesozoic (East Antarctica, Svalbard, e.g. Cianfarra & Salvini, 2014 *Geosphere*; Cianfarra and Salvini 2014 *Pure Appl Geophys*, where I, main author, provided the data collection, analysis and

interpretation, their discussion, the preparation of the tectonic model and of the article). Further studies on lineament domain analysis on surface morphology allowed to understand the volcano-tectonic setting in active areas (Pardo et al., 2009, *J. Volcanol. Geoth. Res.*; Giordano et al. 2013, *J. Volcanol. Geoth. Res.*; Pinton et al., submitted to *J. Volcanol. Geoth. Res.*, for which I provided the image satellite processing, the lineament domain analysis and its volcano-tectonic interpretation, and collaborated to the preparation of the articles), and provided suggestions for volcanic risk mitigation for densely populated areas (Managua, Nicaragua)

Within a series of scientific cooperation with the team of geodesy and engineering from the Universities of Bologna and Modena, and the INGV in Bologna, I cooperated to the analysis and interpretation of geodetic data collected during the last 15 years in the Northern Victoria Land (Antarctica), and integrated them with structural geology studies in the field. Results allowed to highlight the crustal deformation state of this region and to reveal the active status of regional strike slip faults (Dubini et al., 2010, *J. Geophys Res* and Zanutta et al., 2018 *J of Geodynamics* where I performed the geodynamic part of the study as well as the inherent text and figures). Results are now used as a reference of geodynamic and tectonic models in development that are aimed to overtake the classic geologic paradigm of an East Antarctic Craton stable at least since the lower Cambrian. Further results are published in Zanutta et al., 2021 *Remote Sensing*; Zanutta et al. 2018 *Remote Sensing*.

The second research field involves the studies on brittle deformation zones (attitude, spatial distribution and fracture intensity) associated to faults and fault-related folding. The application of numerical/analytical models (both kinematic and dynamic) allow both to replicate the 4D (3D and time) kinematic evolution of geological structure and to evaluate the stress conditions and fracturing geometry/distribution associated to the analyzed geological setting. Results allow to build predictive models of secondary permeability and rock rheological variations also in oil and gas reservoirs. These scientific researches are performed also in cooperation with the industry in complex geodynamic contexts characterized by poly-phased tectonics and inversion tectonics within extensional environments (Barents Sea, Southern Atlantic, Brazil), strike slip environments (Southern Atlantic, North Africa), and collisional environments (North Sea, Iran). The comparison of these models with field analogues allows the preparation of predictive models of the secondary permeability within the studied targets. This research field brought to the preparation of several confidential industrial reports and the articles: Maggi et al. (2015) *Geological Society of America Bulletin* (where the proponent collaborated in the data collection, the preparation of the model, the writing of the article); Cianfarra and Salvini (2016), *Rendiconti Lincei* (where I, main author, collected the data, and performed their analysis, their discussion, the preparation of the tectonic model and the preparation of the article)

The brittle deformation associated to faults has been evaluated also with geophysical methodologies and particularly with the analyses of polarization and amplification of the seismic surface signal. First results relate to a study performed in the Mefite d'Ansanto area (Southern Apennines) where the seismic wave polarization has been correlated both to fracture zones associated to main faults and to tectonic lineament domains identified in the area (Pischiutta et al, 2013, *Physics and Chemistry of the Earth* where the proponent performed the extraction, the analysis and the interpretation of the lineament domains, and collaborated to the article preparation). A study is in progress for the evaluation of the impact of the topography on the polarization of the seismic signal (ambient noise and earthquakes) by the development of a new methodology of relief morphometric classification from DEMs in GIS environment and based on image processing (e.g. . Principal Component Analysis e Fast Fourier Transform). First results of this study were published in Pischiutta et al., 2018 *Geophysical Journal International* where I performed the morphometric analysis of the topography, the comparison with polarization and amplification seismic data and the writing in collaboration of the paper. The international research project involving New Zeland (Natural Hazard Division), and Italy (INGV and University of Genova) on the subject "Capturing site amplification in seismic design: Pilot study investigating seismic site

amplification at stations of the NZ seismic network” has been funded and has a duration of 2 years starting from 01/11/2023.

Studies on the tectonic setting of planetary surfaces (icy satellites, Ganymede, Enceladus) based on structural mapping, lineament analysis and tectonic modeling have been conducted in the framework of PhD research project that I tutored. Results have been published in Rossi et al., 2023 Icarus, Rossi et al., 2020 J. of Maps, Rossi et al., 2020 JGR, Rossi et al., 2018, Tectonophysics.

Tectonic and geodynamic studies investigating the relationship between onshore and offshore regionally sized crustal faults have been performed in South America (Pinheiro et al. 2024, Geomorphology, Cianfarra et al., 2022, Geosciences, Pinheiro & Cianfarra 2021, Geosciences, Pinheiro et al, 2020, Pinheiro et al, 2019 Journal of South American Earth Science) and in the Ligurian Sea (Morelli et al., 2023, Journal of Maps, Morelli et al, 2022 Journal of Marine Science and Engineering).

I also collaborate in the research on the climatic variations at the regional and global scales through the use of satellite images (Landsat and Modis) and their comparison with the historical records of the snow cover in the Italian Alps and in the Northern Hemisphere. The performed study revealed the strong correlation in the frequency domain between the trend of the snow cover in the Northern Hemisphere and in the Italian Alps. Furthermore, the frequency analyses of the historical series showed for the first time the presence of dominant periodicity of about 11 years that well correlated with the solar activity cycle (Valt & Cianfarra, 2010, Cold Reg Sci Technol., where the proponent contributed as the main author and performed the data analyses and interpretation, and the article preparation). Recently, results from this study have been applied to the evaluation of the water resources deriving from the melting of the snow cover (snow water equivalent, SWE). This quantification is performed by the satellite image processing for the preparation of snow cover thematic maps. The SWE by altitude interval is computed in a GIS environment by the integration of data from DEMs, snow cover maps, and snow measurements in the field (Cianfarra & Valt, submitted to Int. J. Rem. Sensing, where the proponent, main author, performed the satellite image processing and the manuscript preparation).

Researches on local-to-global climate changes are performed through the geostatistical analyses of climatic time series (e.g. temperatures, precipitations, snowfall) and are published in high impact journals (e.g. Colombo et al., 2023 Environmental Reserch; Colombo et al., 2022 Journal of Hydrology; Matiu et al., 2021 Cryosphere; Valt et al., 2018 Hydrological Processes)

These studies are also published in popular science journals (Neve e Valanghe), in technical reports of the ARPA Veneto Agency. In the framework of the scientific collaboration with personnel from ARPA Veneto we realized a web site where processed and enhanced satellite images of the western Alpine chain are published to visualize the snow cover extent (<http://www.arpa.veneto.it/temi-ambientali/neve/dati/copertura-nevosa-da-satellite>). This web site is continuously updated and supports the local public agencies for the managemnts of snow avalanche risk, as well as the assessment of the water resources.

RESPONSIBILITIES IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

2024 Winner of the SISP (Italian Society of Planetary Sciences) Call for Scientific Dissemination in the secondary schools. Project Title: La Geologia dei mondi del Sistema Solare ed oltre i suoi confini. Duration: 1 year (from September 2024). Principal Investigator: Paola Cianfarra

2023 CATALYST FUND SEEDING call: Title of the project: Capturing site amplification in seismic design: Pilot study investigating seismic site amplification at stations of the NZ seismic network.

Duration 2 years (from 01/11/2023). PI: Dr Anna Kaiser. Role: **Leader of the University of Genova Research Unit**

2021. Call Europlanet 2024 – Research infrastructure. Title of the project: UPSIDE -Unravelling icy Planetary Surfaces: Insights on their tectonic DEformation from field Survey (project number 20-EPN2-89). **Principal Investigators: C. Rossi and P. Cianfarra.**

2018-2019: LIDAS, Lineament Domain Analysis for sub-surface Stress identification” with the oil company Petrobras (Brazil). **PI: Paola Cianfarra**

2017-2019: G-IDEA (Geodynamics and Ice Dynamics of East Antarctica). Status: approved, Funded by MIUR/PNRA (Programma Nazionale Ricerche in Antartide). **PI: Paola Cianfarra**

2016-2019: Geomorphological-Pedological Evolution of Cuesta Escarpment Foothills in the State of São Paulo. Finanziato da FAPESP (Grant Process 2016//08722-3). PI Prof. Fernando Nadal Junqueira Villela, USP (Universidade de São Paulo). **Role: Leader of the Roma Tre University Research Unit**

PARTICIPATIONS TO NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

2022 PRIN NOCTIS – Network Osservativo Coordinato di Telescopi per l'insegnamento e la Scienza. Principal Investigator: Prof S. Tosi (Unige). Role: member of UniGE Research Unit. Duration 2years (from February 2025).

2022 Call PNRA2022 (Programma Ricerche in Antartide) Title of the project: FHROST - Fossil syntectonic HyDRothermal SysTems in Victoria Land: a multiscale study to explore tectonics, fluids and paleoclimate interactions. Principal Investigator: Prof. L. Federico (UniGe). Role: member of UniGE Research Unit. Status: under review

2019-2021 Lark (Linking the Rennick and Aviator Fault Kinematics by structural-geological methods coupled with thermochronology analyses) Status: approved, Funded by MIUR/PNRA (Programma Nazionale Ricerche in Antartide). PI: Prof. Francesco Salvini (Università Roma Tre). Role: member of the UniGE Research Unit.

2018-2019: Surface temperature monitoring by Earth Observation optical data, drones and field campaigns in the Central Italy geothermal districts. Finanziato da INGV fondi FISR Fondo integrativo speciale per la ricerca, Delibera CIPE n. 71/2016) PI: Dott.sa Maria Fabrizia Buongiorno (INGV). Role: member of the Rome Tre Research Unit.

2017: Neotectonica da Região da Serra de São Pedro e Arrendores/Neotectonics of the São Pedro Ridge Region and Surroundings”. Funded by FAPESP (São Paulo Research Foundation, Grant Process 2017/14791-0). Ruolo: Coordinatore Unità di Ricerca dell'Università Roma Tre

2016-2018: POST (Post Oligocene Svalbard Tectonics). Funded by GeoQuTe Lab, Roma Tre University. **PI: P. Cianfarra.**

2014-2015: Eredità tettonica in North Victoria Land: il ruolo delle discontinuità paleozoiche nell'evoluzione geodinamica recente e l'influenza nell'instaurarsi della glaciazione antartica.

Funded by MIUR/PNRA (Programma Nazionale Ricerche in Antartide). PI: Prof. G. Capponi. Ruolo: membro di unità operativa.

2014-2015: Rilievo geodetico e geofisico per la modellizzazione geodinamica della Terra Vittoria Settentrionale. Funded by MIUR/PNRA (Programma Nazionale Ricerche in Antartide). PI: Prof. A. Capra. Ruolo: membro di unità operativa.

2014-2016: Nascita e morte dei bacini oceanici: processi geodinamici dal rifting alla collisione continentale negli orogeni mediterranei e circum-mediterranei. Funded by MIUR (prot. 2010AZR98L_006. PRIN2010). Coordinatore: Prof. G. Capponi. Ruolo: membro unità operativa.

2010-2015: Ice And Rock Deformations Along Intraplate Strike-Slip Faults At Svalbard. Funded by GeoQuTe Lab, Roma Tre. PI: Prof. F. Salvini. Ruolo: membro unità operativa

2010-2012: Formazione degli archi e delle finestre di subduzione nel Mediterraneo occidentale: relazione con il vulcanismo neogenico. Funded by MIUR (PRIN2008). Coordinatore: Prof. M. Coltorti. Ruolo: membro di unità di ricerca.

2009-2010: Misure Geodetiche e monitoraggio della Terra Vittoria Settentrionale. Funded by MIUR/PNRA (Programma Nazionale Ricerche in Antartide). PI: Prof. A. Capra. Ruolo: membro di unità operativa.

2006-2009: Subglacial Antarctic Lake Exploration. Funded by MIUR/PNRA (Programma Nazionale Ricerche in Antartide). PI: Prof. I.E. Tabacco. Ruolo: membro di unità operativa.

SOLICITED SEMINARS

- Cianfarra P., ***Unveiling the geology of Mars through terrestrial analogues: an integrated approach***. International Workshop of Salda and Burdur Lakes organized by the Turkish Sedimentology Group (SÇG), the Turkish Ministry of Environment, Urbanisation and Climate Change, the Chamber of Geological Engineers (JMO) and Turkish Association for Protection of Geological Heritage (JEMIRKO). 05-07 June 2022, Burdur, Turkey. Duration: 1 hour
- Cianfarra P., ***The tectonic origin of the Antarctic Subglacial Lakes in the East Antarctic Craton***. Universidade de São Paulo, Department of Geography, 11 Dicembre 2017. Duration: 2 hours
- Cianfarra P. & Salvini F., ***Applicazioni della modellazione Hybrid Cellular Automata (HCA) in vari scenari geologici***. Università di Pisa, Dipartimento di Scienze della Terra, 28 Settembre 2017. Duration: 1 hours
- Cianfarra P. & Salvini F., ***Geodynamic indicators of crustal stress fields from tectonic lineament analysis***. XV Simpósio Nacional de Estudos tectônicos. IX International Symposium on Tectonics. 18-21 May 2015, Vitoria, Brazil. Duration: 45 minutes
- Cianfarra P., Maggi M. and Salvini F., ***Predicting fracturing in tectonic structures by replicating their kinematics with FORC, a Layered-HCA based numerical modeler***. AAPG Meeting on "Fractured reservoir : Geological, Geophysical and Engineering Tools to Crack them". Sicily, 16-17 April 2015. Duration: 30 minutes

- Cianfarra P. and Salvini F., **Non conventional indicators of active stress field from synthetic, regional scale images**. 25° convegno GNGTS Roma 28-30 novembre 2006. Duration: 20 minutes

ORGANIZATION OF SCIENTIFIC MEETING

In 2024 Paola Cianfarra was co-convener of the session entitled “Terrestrial Field Analogues and Crewed Analog Missions” at the EGU General Assembly 2024 held in Vienna, Austria 14-19 April 2024. <https://meetingorganizer.copernicus.org/EGU24/session/48139>

In 2024 Paola Cianfarra was chairman and part of the **Scientific Organizing Committee (SOC)** of the 7th International Focus Workshop Chianti Topics. Environments, Geology, physics and chemistry of planetary environments. The meeting was held at Arcetri, Firenze (Italy) in October, 2024

In 2022 Paola Cianfarra was part of the **Scientific Organizing Committee (SOC)** of the 5th International Focus Workshop Chianti Topics. Atmospheres, The physics and chemistry of planetary gaseous environment. II meeting held at the Antico Spedale del Bigallo, Firenze (Italy) April, 2022. <http://chiantitopics.it>

MAIN RESEARCH METODOLOGIES

- Application of original numerical/analytical modeling method (kinematics/dynamics) to replicate both the tectonic evolution of buried geological structures and to evaluate the stress field and geometry/spatial distribution of fracturing associated to main faults and their influence on the spatial variation of secondary permeability. Comparison with field analogues. These models are performed starting from the interpretation of seismic reflection profiles with dedicate softwares (Petrel TM; MOVE) and RES data (radio echo-sounding).
- Field collection and statistical analysis of geological structural data. Analysis and interpretation of geophysical data (radio echo sounding, reflection seismic profiles, geodetic data) and their numerical modeling for studies on crustal deformation and the preparation of tectonic and geodynamic models.
- Lineament domain analysis on satellite images and DEM for active/recent tectonic studies and for the evaluation of crustal stress fields as well as for the assessment of the secondary permeability at the regional scale.
- Integration of eterogenous remote data (multi-sensor, multi-frequency, multi-platform data) with data from in situ measurements (spectral signatures, GPS data).
- Multi-hyperspectral analysis of remotely sensed data (e.g. Landsat TM/ETM+/OLI; Sentinel-2; Spot; Quickbird; Mivis; ASTER; MODIS); image processing, enhancement and georeferencing of multispectral and RADAR (e.g. Radarsat-SAR) images and morphometric analysis for studies in geodynamics, active/recent tectonics, in support to activities for geo-environmental monitoring and geological mapping. Preparation of thematic maps in GIS environment and their near-real time updating.

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken Interaction	Spoken Production	
English	C1	C1	C1	C1	C1

Social skills and competences The development of excellent social skills also in a multicultural environment is based on:

- my personal attitude to social relationships based on the attention to respect and communication;
- over-ten-years work experience in the academia that allowed me to successfully collaborate with people from various countries and with different technical-scientific competences. This led to the realization of many scientific papers published in international peer reviewed journals;
- my national and international collaborations in the framework of research projects and oil consulting activity;
- my participation to missions in remote areas of the planet like polar regions (Arctic and Antarctica), and regions with geo-political or economic-military problems (Algeria, Iran, Brazil);
- my involvement in round-tables discussion, solicited talks and seminars at national and international congress;
- the preparation of courses, excursions and field trips with didactic and scientific objectives for Master Degree students (D.M. n. 270/2004), for geologists and engineers of oil companies, and for Civil Protection graduated personnel.

Organizational capacities and management skills My strong organizational capacities and management skills are based on my experience as:

- tutor/co-tutor of Master Degree theses, PhD theses, and Post-Graduate Master theses;
- manager for the technical and logistic organization of field trips with didactic and scientific objectives for engineers and geologists of oil companies;
- professor involved in didactic activities including the preparation, organization and realization of classes, seminars, practical classes, training and field trips for different kind of students (master degree, civil protection and oil company personnel)
- organization of professional stages for post graduated students
- team leader (groups of 5-8 person) in the framework of project/contracts funded by industry

Technical Skills and competences

- preparation of numerical models based on the Hybrid Cellular Automata (HCA) method regarding the evolution of geological structures in the different tectonic environments;
- preparation of analytical/numerical models for the assesment and prediction of rocks hydraulic properties in fault zones;

- 3D geologic modeling of reservoir, seismic data interpretation and well correlation with Petrel (Schlumberger);
- satellite image processing for geo-ambiental applications with the main commercial sw such as ENVI, ERDAS, ERMAPPER;
- analysis and processing of geophysical and geo-ambiental data in GIS environment with opensource sw (QGIS);
- statistical and geostatistical analyses of geological and geophysical data by means of commercial sw (Surfer; R, Geostatistica; Voxler) and in-house developed sw (Daisy Tre);
- Advanced level skills in sw such as Corel, Adobe
- Advanced level skills in Microsoft Windows (all versions), Office package (all versions); knowledge of Unix system;

Driving Licence B

FURTHER INFORMATIONS**SCIENTIFIC PRODUCTION**

Author of:

- 44 papers published in JCR peer reviewed international journals (including 9 papers as first author and 4 papers as corresponding author).
- more than 130 abstracts of oral and poster presentations at national/international congresses

Bibliometry:

From SCOPUS, No of documents: 50 (including 44 articles, 4 conference papers, 1 letter and 1 note); H-index: 18;

Citations: 852. Date: 11-03-2025

ORCID: <http://orcid.org/0000-0001-9396-4519>

PEER REVIEWED PAPERS ON JCR JOURNALS (SCOPUS AND/OR WOS)

* P. Cianfarra corresponding author

P1. Balbi, E., **Cianfarra, P.**, Crispini, L., Tosi, S., & Ferretti, G. (2024). Hierarchical-agglomerative clustering analysis of geomorphic features applied to tectonic investigation of terrestrial planets: An example from Claritas Fossae, Mars. *Icarus*, 116197. <https://doi.org/10.1016/j.icarus.2024.116197>

P2. Morelli, D., Migeon, S., Locatelli, M., **Cianfarra, P.**, Crispini, L., Corradi, N., ... & Falese, F. (2024). Geohazard features of the Ligurian Sea. *Journal of Maps*, 20(1), 2342920. <https://doi.org/10.1080/17445647.2024.2342920>

P3. **Cianfarra, P.**, Morelli, D., & Salvini, F. (2024). Geostatistical Analysis of Lineament Domains: The Study Case of the Apennine Seismic Province of Italy. *Geosciences*, 14(5), 131. <https://doi.org/10.3390/geosciences14050131>

P4. Balbi, E., Ferretti, G., Tosi, S., Crispini, L., & **Cianfarra, P.** (2024). Polyphase tectonics on Mars: Insight from the Claritas Fossae. *Icarus*, 411, 115972. <https://doi.org/10.1016/j.icarus.2024.115972>

P5. Pinheiro, M. R., Villela, F. N. J., & **Cianfarra, P.** (2024). Neotectonic landforms of the Neoproterozoic basement of Southeastern Brazil: The case of the north border of the São Paulo Basin. *Geomorphology*, 109123. <https://doi.org/10.1016/j.geomorph.2024.109123>

P6. Rossi, C., **Cianfarra, P.**, Lucchetti, A., Pozzobon, R., Penasa, L., Munaretto, G., Pajola, M. (2023). Deformation patterns of icy satellite crusts: Insights for tectonic balancing and fluid migration through structural analysis of terrestrial analogues. *Icarus* <https://doi.org/10.1016/j.icarus.2023.115668>

P7. Colombo, N., Guyennon, N., Valt, M., Salerno, F., Godone, D., Cianfarra, P., Freppaz, M., Maugeri, M., Manara, V., Acquaotta, F., Petrangeli, A.B., Romano, E. (2023) Unprecedented snow-drought conditions in the Italian Alps during the early 2020s. *Environmental Research Letters* 18, 074014, <https://doi.org/10.1088/1748-9326/acdb88>

P8. Morelli, D., Locatelli, M., Crispini, L., Corradi, N., Cianfarra, P., Federico, L., & Brandolini, P. (2023). 3D Modelling of Late Quaternary coastal evolution between Albenga and Loano (Western Liguria, Italy). *Journal of Maps*, 19(1), 2227211.

P9. Colombo, N., Valt, M., Colombo, E., Salerno, F., Godone, D., **Cianfarra, P.**, Freppaz, M., Maugeri, M., Guyennon, N. (2023) Long-term trend of snow water equivalent in the Italian Alps. *Journal of Hydrology*, 614, 128532, <https://doi.org/10.1016/j.jhydrol.2022.128532>

P10. Morelli, D., Locatelli, M., Corradi, N., Cianfarra, P., Crispini, L., Federico, L., Migeon, S. (2022). Morpho-Structural Setting of the Ligurian Sea: The Role of Structural Heritage and Neotectonic Inversion. *Journal of Marine Science and Engineering*, 10, 1176, <https://doi.org/10.3390/jmse10091176>

P11. Balbi, E., Ferretti, G., Ferrando, A., Faccini, F., Crispini, L., Cianfarra, P., Scafidi, D., Barani, S., Tosi, S., Terrone, M. (2022). CAPS: A New Method for the Identification of Different Surface Displacements in Landslide and Subsidence

Environments through Correlation Analysis on Persistent Scatterers Time-Series from PSI. *Remote Sensing*, 14, 3791, <https://doi.org/10.3390/rs14153791>

P12. **Cianfarra, P.**, Locatelli, M., Capponi, G., Crispini, L., Rossi, C., Salvini, F., & Federico, L. (2022). Multiple reactivations of the Rennick Graben Fault system (northern Victoria Land, Antarctica): New evidence from paleostress analysis. *Tectonics*, 41, e2021TC007124. <https://doi.org/10.1029/2021TC007124>

P13. **Cianfarra, P.**, Pinheiro, MR, Villela, FNJ, Salvini, F. (2022) Intraplate Strike-Slip Corridor within South America (NE Border of the Paraná Basin) Unveiled by Structural Analysis of Faults and Fracture Swarms. *Geosciences* 12 (2), 101. <https://doi.org/10.3390/geosciences12020101>

* P14. Pinheiro, MR., **Cianfarra, P.** (2021) Brittle Deformation in the Neoproterozoic Basement of Southeast Brazil: Traces of Intraplate Cenozoic Tectonics. *Geosciences* 11 (7), 270. <https://doi.org/10.3390/geosciences11070270>

P15. Balbi, E., Terrone, M., Faccini, F., Scafidi, D., Barani, S., Tosi, S., Crispini, L., **Cianfarra, P.**, Poggi, F., Ferretti, G. (2021). Persistent Scatterer Interferometry and Statistical Analysis of Time-Series for Landslide Monitoring: Application to Santo Stefano d'Aveto (Liguria, NW Italy). *Remote Sensing* 13 (17), 3348. <https://doi.org/10.3390/rs13173348>

P16. Michael Matiu, Alice Crespi, Giacomo Bertoldi, Carlo Maria Carmagnola, Christoph Marty, Samuel Morin, Wolfgang Schöner, Daniele Cat Berro, Gabriele Chiogna, Ludovica De Gregorio, Sven Kotlarski, Bruno Majone, Gernot Resch, Silvia Terzago, Mauro Valt, Walter Beozzo, **Paola Cianfarra**, Isabelle Gouttevin, Giorgia Marcolini, Claudia Notarnicola, Marcello Petitta, Simon C Scherrer, Ulrich Strasser, Michael Winkler, Marc Zebisch, Andrea Cicogna, Roberto Cremonini, Andrea Debernardi, Mattia Faletto, Mauro Gaddo, Lorenzo Giovannini, Luca Mercalli, Jean-Michel Soubeyroux, Andrea Sušnik, Alberto Trenti, Stefano Urbani, Viktor Weilguni (2021) Observed snow depth trends in the European Alps: 1971 to 2019. *Cryosphere* 15(3), pp. 1343-1382. <https://doi.org/10.3390/rs13010087>

P17. Zanutta, A.; Negusini, M.; Vittuari, L.; Martelli, L.; **Cianfarra, P.**; Salvini, F.; Mancini, F.; Sterzai, P.; Creati, N.; Dubbini, M.; et al. (2021). Victoria Land, Antarctica: An Improved Geodynamic Interpretation Based on the Strain Rate Field of the Current Crustal Motion and Moho Depth Model. *Remote Sensing* 2021, 13, 87. <https://doi.org/10.3390/rs13010087>

P18. Rossi, C., Cianfarra, P., Salvini, F., Bourgeois, O., & Tobie, G. (2020). Tectonics of Enceladus' South Pole: Block rotation of the Tiger Stripes. *Journal of Geophysical Research: Planets*, 125(12), e2020JE006471. <https://doi.org/10.1029/2020JE006471>

P19. Pinheiro, M. R., Costa, J. R., Scigliano, B. F., Ferreira, R. P. D., **Cianfarra, P.**, & Manfredini, S. (2020). Interações solo, relevo e material de origem na região do Alto Estrutural do Pau d'Alho–sudeste do Brasil. *Revista do Instituto Geológico*, 41(1), 49-67. <http://dx.doi.org/10.33958/reviq.v41i1.686>

P20. Rossi, C, **CIANFARRA, P.**, and Francesco Salvini (2020). "Structural geology of Ganymede regional groove systems (60° N–60° S)." *Journal of Maps* (2019): 1-11. <https://doi.org/10.1080/17445647.2019.1685605>

*P21. Pinheiro M.R, **Cianfarra P.**, Salvini F., (2019). Tectonics of the Northeastern border of the Parana Basin (Southeastern Brazil) revealed by lineament domain analysis *Journal of South American Earth Sciences* 94, 102231 <https://doi.org/10.1016/j.jsames.2019.102231>

P22. Rossi C., **Cianfarra P.**, Salvini F., Mitri G., Massé M., (2018). Evidence of transpressional tectonics on the Uruk Sulcus region, Ganymede. *Tectonophysics* 749, pp. 72-87. <https://doi.org/10.1016/j.tecto.2018.10.026>

P23. Zanutta A., Negusini M., Vittuari L., Martelli L., **CIANFARRA P.**, Salvini F., Mancini F., Sterzai P., Dubbini M., Capra A., (2018). New Geodetic and Gravimetric Maps to Infer Geodynamics of Antarctica with Insights on Victoria Land. *Remote Sensing* 10, 10, 1608. doi:10.3390/rs10101608

P24. Valt M., Guyennon N., Salerno F., Petrangeli A.B., Salvatori R., **CIANFARRA P.**, Romano E., (2018). Predicting new snow density in the Italian Alps: A variability analysis based on 10 years of measurements. *Hydrological Processes*. 32, 20, 3174–3187. DOI: 10.1002/hyp.13249

- P25. Pischiutta, M., **CIANFARRA P.**, Salvini, F., Cara, F., & Vannoli, P. (2018). A systematic analysis of directional site effects at stations of the Italian Seismic Network to test the role of local topography. *Geophysical Journal International*, 214,1, 635-650. <https://doi.org/10.1093/gji/ggy133>
- P26. Arragoni S., Maggi M., **CIANFARRA P.**, Fernández L.P., Cuesta A., Salvini F., (2018) Origin of exotic clasts in the Central-Southern Apennines: clues to the Cenozoic fold-and-thrust collisional belt in the Central Mediterranean area. *Geological Magazine*, 155, 2, 479-505. <https://doi.org/10.1017/S0016756817000930>
- P27. Zanutta A., Negusini M., Vittuari L., **CIANFARRA P.**, Salvini F., Mancini F., Sterzai P., Dubbini M., Galeandro A., Capra A., (2017) Monitoring geodynamic activity in the Victoria Land, East Antarctica: Evidence from GNSS measurements. *Journal of Geodynamics*, 110, 31-42. <http://dx.doi.org/10.1016/j.jog.2017.07.008>
- P28. Salvini F., Arragoni S., **CIANFARRA P.** and Maggi M. (2017). Reply to Comments on “the Cenozoic Fold-and-Thrust Belt of Eastern Sardinia: Evidences from the Integration of Field Data With Numerically Balanced Geological Cross Section” by Arragoni et al.(2016). *Tectonics*, 36(10), 2273-2278. <https://doi.org/10.1002/2017TC004573>
- *P29. Lucianetti G., **CIANFARRA P.**, Mazza R. (2017). Lineament domain analysis to infer groundwater flow paths: Clues from the Pale di San Martino fractured aquifer, Easter Italian Alps. *Geosphere*, vol. 13, no. 5, pp. 1729-1746. <https://doi.org/10.1130/GES01500.1>
- P30. **CIANFARRA P.** and Maggi M., (2017). Cenozoic extension along the reactivated Aurora Fault System in the East Antarctic Craton. *Tectonophysics*, 703, 135-153. <https://doi.org/10.1016/j.tecto.2017.02.019>
- P31. **CIANFARRA P.** and Salvini F., (2016). Quantification of fracturing within fault damage zones affecting Late Proterozoic carbonates in Svalbard. *Rend. Fis. Acc. Lincei*, 27(19), 229-241. DOI 10.1007/s12210-016-0527-5
- P32. Arragoni S., Maggi M., **CIANFARRA P.** and Salvini F. (2016). The Cenozoic fold-and-thrust belt of Eastern Sardinia: Evidences from the integration of field data with numerically balanced geological cross section. *Tectonics*, 35(6), 1404-1422. DOI:10.1002/2015TC004004
- P33. **CIANFARRA P.** and Salvini F., (2016): Origin of the Adventure Subglacial Trench linked to Cenozoic extension in the East Antarctic Craton. *Tectonophysics*, 670, 30-37. <http://dx.doi.org/10.1016/j.tecto.2015.12.011>
- P34. Maggi M., **CIANFARRA P.** and Salvini F., (2016). Erosion by tectonic carving in the Concordia Subglacial Fault Zone, East Antarctica. *Earth and Planetary Science Letters* 433, 99-108. <http://dx.doi.org/10.1016/j.epsl.2015.10.045>
- P35. **CIANFARRA P.** and Salvini F. (2015). Lineament domain of regional strike-slip corridor: Insight from the Neogene transtensional De Geer Transform Fault in NW Spitsbergen. *Pure and Applied Geophysics*, 172(5), SI 1185-1201. DOI 10.1007/s00024-014-0869-9
- P36. Maggi M., **CIANFARRA P.**, Salvini F., de Lima C.C (2015). Staircase fractures in microbialites and the role of lamination-related mechanical anisotropy: The example of the Acquasanta Terme travertine deposits (central Italy). *Geological Society of America Bulletin*, 127(5-6), 879-896, B31163. DOI: 10.1130/B31163.1
- P37. **CIANFARRA P.** and Salvini F. (2014). Ice sheet surface lineaments as nonconventional indicators of East Antarctica bedrock tectonics. *Geosphere* 10, 6, 1411-1418. DOI:10.1130/GES01074.1. ISSN: 1553-040X
- P38. Pischiutta, M., Anselmi, M., **CIANFARRA P.**, Rovelli, A., Salvini, F. (2013). Directional site effects in a non-volcanic gas emission area (Mefite d'Ansanto, southern Italy): Evidence of a local transfer fault transversal to large NW-SE extensional faults? *Physics and Chemistry of the Earth*, vol. 63, p. 116-123, DOI: 10.1016/j.pce.2013.03.008. ISSN: 1474-7065 2013
- P39. Giordano G., Pinton A., **CIANFARRA P.**, Baez W., Chiodi A., Viramonte J., Norini G., Gropelli G. (2013). Structural control on geothermal circulation on the Cerro Tuzgle-Tocomar geothermal volcanic area (Puna plateau, Argentina). *Journal of Volcanology and Geothermal Research*, 249, 77-94. DOI: 10.1016/j.jvolgeores.2012.09.009.
- * P40. Valt M. and **CIANFARRA P.** (2010). Recent snow cover variability in the Italian Alps. *Cold Regions Science and Technology*, Vol. 64, Issue 2, pp. 146-157. DOI: 10.1016/j.coldregions.2010.08.008. ISSN: 0165-232X

P41. Dubbini M, **CIANFARRA P.**, Casula G, Capra A, Salvini F (2010). Active tectonics in Northern Victoria Land (Antarctica) inferred from the integration of GPS data and the geologic setting. *Journal of Geophysical Research*, Vol. 115, B12421, DOI: 10.1029/2009JB007123, ISSN: 0148-0227.

P42. Pardo N, Macias JL, Giordano G, **CIANFARRA P.**, Bellatreccia F, Avellán DR (2009). The ~1245 yr bp Asososca maar eruption: the youngest event along the Nejapa-Miraflores Volcanic Fault, Western Managua, Nicaragua. *Journal of Volcanology and Geothermal Research*, Vol. 184, Issue 3-4, pp. 292-312. DOI: 10.1016/j.jvolgeores.2009.04.006. ISSN: 0377-0273

P43. **CIANFARRA P.**, Forieri A, Salvini F, Tabacco I.E, Zirizotti A. (2009). Geological setting of the Concordia Trench-Lake System in East Antarctica. *Geophysical Journal International*, Vol. 177, Issue 3, pp. 1305-1314. DOI: 10.1111/j.1365-246X.2009.04123.x. ISSN: 0956-540X

P44. Tabacco I.E, **CIANFARRA P.**, Forieri A, Salvini F. Zirizotti A (2006). Physiography and tectonic setting of the subglacial lake district between Vostok and Belgica Subglacial Highlands (Antarctica). *Geophysical Journal International*, vol. 165 (3); p. 1029-1040, ISSN: 0956-540X, doi: 10.1111/j.1365-246X.2006.02954.x

PAPERS/EXTENDED ABSTRACTS IN NON-JCR JOURNALS

C-1 Catalano S., **Cianfarra P.**, Maggi M., Romagnoli G., Salvini F., Tortorici G., Tortorici L. (2013) The architecture of the peri-Tyrrhenian collision belt from Central Apennines to Sicily and the dynamics of the central Mediterranean. *Rendiconti on line della Società Geologica Italiana*, 29, pp. 27-30.

C-2 **Cianfarra P.**, Salvini F. (2013). Intraplate transtensional tectonics in the East Antarctic Craton: insight from buried subglacial bedrock in the Lake Vostok – Dome C region . *INTERNATIONAL JOURNAL OF GEOSCIENCES*, vol. 4, pp.1275-1284. ISSN: 2156-8367 doi:10.4236/ijg.2013.49122 (peer reviewed)

C-3 **Cianfarra P.**, Salvini F. (2012). Geodynamic constraints of the peri-Tyrrhenian orogen (Tyrrhenian Sea-Apennines) from lineament swarm analysis. *Rendiconti on line della Società Geologica Italiana*, 21 (PART 1) pp. 166

C-4 Salvini F, **Cianfarra P.**, Maggi M. (2012). Preliminary geodynamic section of central Italy between the 41° and 42°N parallels. *Rendiconti on line della Società Geologica Italiana*, 21 (PART 1) pp. 183-184.

C-5 Valt M., **Cianfarra P.**, Moro D. and Zasso R., (2009). Recent snow cover variation and avalanche activities in Southern Alps. *ISSW 09 Europe: International Snow Science Workshop, Proceedings*, 229-233.

C-6 **Cianfarra P.**, Salvini F. (2008). Ice cap surface lineaments in the Vostok-Dome C area, East Antarctica. What are they telling us on the East Antarctica craton tectonics?. *TERRA ANTARTICA REPORTS*, vol. 14; p. 203-208, ISSN: 1723-7211 (peer reviewed)

PAPERS IN POPULAR SCIENTIFIC JOURNALS

D-1. Valt M., **Cianfarra P.**, 2021. L'inverno 2020-2021 sulle Alpi Italiane Neve e Valanghe, ISSN 1120-0642, numero speciale stagione invernale 2021, pp. 10-20

D-2. Valt M., Cianfarra P., Sofia S. 2021. Neve in Appennino, Inverno 2020-21. Neve e Valanghe ISSN 1120-0642, numero speciale stagione invernale 2021 pp. 21-27

D-3. Valt M., Cianfarra P., 2020. Il precoce inverno sulle Alpi meridionali 2020. Neve e Valanghe ISSN 1120-0642, numero speciale stagione invernale 2019-20, pp. 9-19

D-4. Valt M., Cianfarra P., Sofia S. 2020. Neve in Appennino, Inverno 2019-20 Neve e Valanghe ISSN 1120-0642, numero speciale stagione invernale 2019-20 pp. 21-27

D-5. Valt M., **Cianfarra P.**, 2019. La stagione invernale 2018-2019 sulle Alpi. Neve e Valanghe ISSN 1120-0642, numero speciale stagione invernale 2018-2019, pp. 9-15

- D-6. Valt M., **Cianfarra P.**, 2018. La stagione invernale 2017-2018 sulle Alpi. Neve e Valanghe n.92, pp. 9-15, ISSN 1120-0642
- D-7. Valt M., **Cianfarra P.**, Sofia S. 2018. La stagione invernale 2017-2018 sugli Appennini. Neve e Valanghe n.92, pp. 16-21, ISSN 1120-0642
- D-8. Valt M. and **Cianfarra P.**, 2016. La stagione invernale 2014-2015. Neve e Valanghe, vol.88, ISSN 1120-0642
- D-9. Valt M. and **Cianfarra P.**, 2015. Evoluzione del manto nevoso sulle Alpi italiane: stagione invernale 2014-2015. Neve e Valanghe, vol.85, pp. 10-21, ISSN 1120-0642
- D-10. Valt M. and **Cianfarra P.**, 2014. La stagione invernale 2013-2014, innevamento e attività valanghiva sulle Alpi. Neve e Valanghe, vol.81, pp. 10-19, ISSN 1120-0642
- D-11. **Cianfarra P.** and Valt M., 2014. Monitoraggio dell'equivalente in acqua della neve da dati MODIS. Il caso dell'Alto Piave. Neve e valanghe, n. 83, 28-34, ISSN 1120-0642
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Genoa, 04 March, 2025

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